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## **STORM WATER INSTRUCTIONS (No. SWII 97-02)**

### **ANALYTICAL PARAMETERS FOR AUTOMOBILE SALVAGE YARDS COVERED BY THE GENERAL INDUSTRIAL STORM WATER PERMIT**

The State Board issued a general industrial permit for storm water discharges pursuant to federal regulations at 40 CFR 122.26 (NPDES Permit No. CAS000001; Board Order No. 91-03-DWQ and amended by Order No. 92-12-DWQ). The general industrial storm water permit was reissued on April 17, 1997 (State Board Order No. 97-03-DWR).

The monitoring provisions under State Board Order No. 97-03-DWR include collection and analysis of storm water samples for: (i) total suspended solids, pH, specific conductance, total organic carbon (or oil & grease); (ii) toxic chemicals and other pollutants likely to be present in significant quantities; (iii) analytical parameters based on the facility Standard Industrial Classification (SIC) code; and (iv) parameters required by the Regional Board.

Automobile salvage yards (motor-vehicle recycler facilities) are designated SIC code 5015. SIC 5015 describes establishments primarily engaged in dismantling motor-vehicles for the purpose of selling parts. Table D in State Board Order No. 97-03-DWR lists SIC specific analytical parameters for automobile salvage yards. The parameters, reproduced from the USEPA Multisector General Permit, are total suspended solids, iron, lead, and aluminum.

On the basis of review of monitoring data, reports, and studies<sup>1</sup>, Regional Board staff have determined that copper and zinc characterize pollutants of concern in storm water discharges from automobile salvage yards in the Los Angeles Region better than iron and aluminum. Consequently, we provide the following instructions for automobile salvage yard operators in the Los Angeles Region when conducting sampling and analysis under State Board Order No. 97-03-DWQ.

#### Instructions

1) All automobile salvage yard operators in the Los Angeles Region when conducting storm water sampling under State Board Order No. 97-003-DWQ must analyze for the following parameters: (a) total suspended solids, pH, specific conductance, and oil & grease (preferable to total organic carbon); (b) SIC based analytical parameters - total recoverable lead, total recoverable copper and total recoverable zinc, unless certification is provided in accordance with State Board Order No. 97-03-DWQ § B.5.c.iii.; and (c) toxic

<sup>1</sup> Autodismantler and recycler facilities: Storm water pollution, prevention, and regulatory policy, X. Swamikannu (1994), AWMA 87th Annual Meeting Proceedings, Cincinnati, OH.; Water quality of first flush runoff from 20 industrial sites, D.E. Line *et al.* (1997), Water Env. Res. 69, 305-310.; Los Angeles County 1996-1997 Stormwater Monitoring Report, Los Angeles County Department of Public Works (1997).



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pollutants likely to be present in significant quantities. The parameters in Instruction 1.b. substitute Table D parameters - total suspended solids, lead, iron and aluminum.

2) Analysis for SIC specific parameters for automobile salvage yards are to be conducted using the following test methods and Method Detection Limits (MDL) or equivalent: (a) total recoverable lead - USEPA Method 239.2 (MDL 10 µg/L); (b) total recoverable copper - USEPA Method 219.2 (MDL 10 µg/L); and (c) total recoverable zinc - USEPA Method 289.2 (MDL 50 µg/L )

3) Instruction 1 is applicable in the Los Angeles Region to both individual automobile salvage yard operators and operators who participate in a statewide Group Monitoring Plan (GMP). Automobile salvage yard operators in other Regions of the State should consult their respective Regional Board storm water program contacts for instruction on sampling parameters.

Table 1. Summary of sampling and analysis parameters for storm water discharges from automobile salvage yards.

PARAMETERS	FREQUENCY	ANALYTICAL METHOD
<u>(a) Mandatory</u> Total suspended solids	2 x per wet season	USEPA Method 160.2 or equivalent
pH	2 x per wet season	USEPA Method 150.1 or equivalent
Specific conductance	2 x per wet season	USEPA Method 120.1 or equivalent
Oil & grease	2 x per wet season	USEPA Method 413.2 or equivalent
<u>(b) SIC related</u> Lead	2 x per wet season	USEPA Method 239.2 or equivalent
Copper	2 x per wet season	USEPA Method 219.2 or equivalent
Zinc	2 x per wet season	USEPA Method 289.2 or equivalent

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